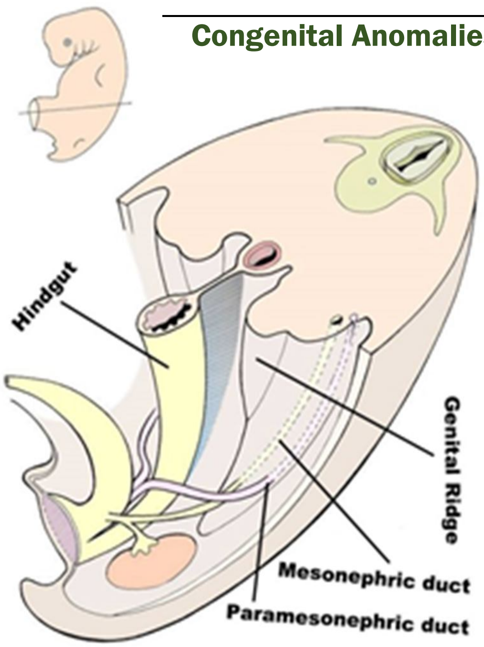
بسم الله الرحمن الرحيم

عنوان المحاضرة: **Embryology of the Genital Tract**

تاريخ المحاضرة : **11/2/2013**

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الـ**Embryology of the Genital Tract** بنتكلم عن حاجتين الـ**Development** والـ**Congenital Anomalies**



- الـ**Development**:

- لو أخدنا **Cross Section** في **embryo** عمره **7-8 weeks**

1-Genital Ridge ► Ovaries (Testis in male)

(Descend to the pelvic brim by the gubernaculum)

2-Mesonephric duct ► Wolffian duct, in absence of testosterone It becomes Rudimentary **If Remnant persists → Epoophoron

3-Paramesonephric duct ► Müllerian ducts gives rise to:

Fallopian tubes, Uterus, Cervix and upper $^2/_3$ of the Vagina

****Lower $^1/_3$ develop from urogenital sinus**

- الـ**Congenital Anomalies**:

A- Congenital Anomalies of the Ovary:

1-Aplasia: متكونش خالص Rare 2-Streak gonads: replaced by fibrous tissue

3-Chromosomal Abnormalities e.g. Turner syndrome

B- Congenital Anomalies of the Müllerian duct:

1-Aplasia: NO (Fallopian tubes, Uterus, Cervix and upper $^2/_3$ of the Vagina) only (Blind Vaginal Pouch)

- بتيجي البنت تشتكي بـ**Primary Amenorrhea**

- نفرق بينها وبين الـ**Other ovarian anomalies** إن البنت بيظهر عليها الـ**Secondary Sexual Characters** بينما لو المشكلة في الـ**Ovary** مش هتظهر

2-Mal-Union (Improper Fusion):

a-<u>Arcuate uterus</u>: mal-fusion of the uppermost part of the duct of the middle third (fundal depression)

b-<u>Bicorps Unicollis</u>: 2 bodies of the uterus with single cervix and vagina

c-<u>Bicorps Bicollis</u>: 2 Uteruses and 2 Cervixes and single vagina

d-<u>Double System</u> (Uterus didelphys): 2 x (uterus, cervix, vagina)

e-<u>Bicornuate Uterus</u>: fusion process of the upper part of the ducts while lower part is normal

f-<u>Septate Uterus</u>: as Bicornuate but the Serosal lining is fused

****<u>Complications of Bicornuate Uterus:</u>**

1-Menorrhagia 2-Infertility 3-Dysmenorrhea

4-Abortion if get pregnant d.t habitual abortion 5-Preterm Labour if pregnancy conitnued

****<u>Causes of Habitual Abortion (Recurrent):</u>**

1-Chromosmal Abnormalities 2-Antiphospholipid Antibody Syndrome (Immunological)

3-Uterine malformation

3-Unicornuate Uterus: One Müllerian duct is formed and the other one isn't
** may the other tube dosen't vanish completely leaving <u>RUDIMENTARY</u> horn →
The risk of ECTOPIC pregnancy → Rupture

C-Congenital Anomalies of the Vagina:
1-Failure of Canalization 2-Longitudinal/Transverse Vaginal Septum
3-Imperforate Hymen

**Complications of Imperforate hymen:
1-Primary Amenorrhea 2-Hematocorpus /Hematometrium /Hematosalpnix /Peritoneal Irritation
3-Cyclic Lower Abdominal Pain 4-Pelvi-Abdominal mass

